

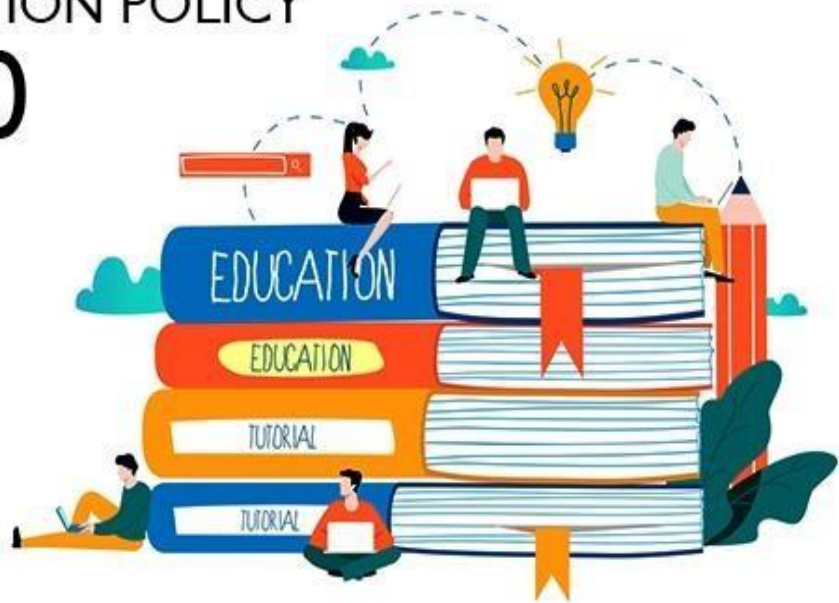
Sant Dnyaneshwar Shikshan Sanstha's
**ANNASAHEB DANGE COLLEGE OF
ENGINEERING AND TECHNOLOGY, ASHTA**
[An Autonomous Institute]



Transforming INDIA

NATIONAL EDUCATION POLICY

2020



DEPARTMENT OF CIVIL ENGINEERING

R&D NEWSLETTER



Volume 3

June 2023

Editorial Committee

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From the Editor's Desk...

100 Smart Cities are the real incubators of the New Urban India: Mr. Hardeep S. Puri

The Real-Time Geographical Management Information System (GMIS) is used by the Smart Cities Mission, which is overseen by an Apex Committee led by the Secretary, Ministry of Housing and Urban Affairs, to report on the progress of projects as they are being implemented. A Smart City Advisory Forum (SCAF) is set up at the city level in accordance with the SCM Statement and Guidelines to provide guidance and facilitate collaboration among various stakeholders. It includes representatives from the Mayor, District Collector, Members of Parliament, Members of the Legislative Assembly, local youth, technical experts, other stakeholders, etc. The SCAFs have been formed in all 100 Smart Cities.

The Mission has around 7,800 projects worth US\$ 22 billion (Rs. 1.8 lakh crore), of which 5,700+ projects (approximately 73%) worth US\$ 13 billion (Rs. 1.1 lakh crore) have been completed. All remaining projects are expected to be completed by June 30, 2024.

The implementation of the Smart Cities Mission, marked the start of a new era in the urban development industry as a step towards reforming the industry, encouraging improved economic standards, smart governance, a climate-sensitive sustainable environment, vibrant public spaces, digital access, and health & hygiene, thus empowering the cities framework. The Government of India's Ministry of Housing and Urban Affairs is dedicated to raising the ease of living index for the benefit of its people.

VISION OF THE INSTITUTE

To be a Leader in producing professionally competent engineers.

MISSION OF THE INSTITUTE

We, Annasaheb Dange College of Engineering & Technology, Ashta, are committed to achieve our vision by,

- M1. Imparting effective outcome based education,
- M2. Preparing students through skill oriented courses to excel in their profession with ethical values,
- M3. Promoting research to benefit the society,
- M4. Strengthening relationship with all the stakeholders.

VISION OF THE DEPARTMENT

To prepare Civil Engineers who are professionally competent and socially responsible.

MISSION OF THE DEPARTMENT

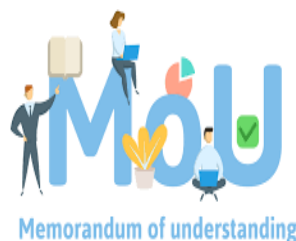
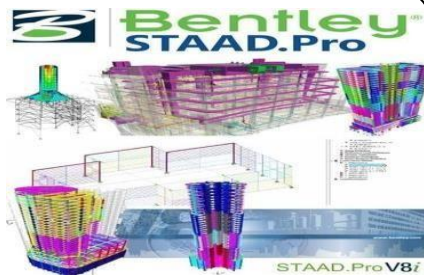
- Imparting academic excellence through outcome based education.
- Preparing students through skill oriented courses to excel in their profession with ethical values.
- Grooming students for higher studies and research culture.
- Strengthening relationship with stakeholders for continuous development.

OBJECTIVES OF R&D CELL

- To motivate faculty and students to undertake Research and Development activities.
- To initiate, develop and coordinate research in emerging areas of civil engineering including all multidisciplinary fields.
- To serve as a medium for three way interaction between the Institute, R&D Organizations and Industry.
- To assist the faculty, Ph. D. scholars and students to apply for funding under various Government, Professional Chapter or Private Sector schemes.
- To encourage publication of technical papers in National / International refereed Journals and Conferences based on the research carried by the faculty and students
- To register under Intellectual Property Rights like Patents & copyright the outcome of R&D work carried out by the faculty and students of the Institution
- To facilitate signing of MoU with industries and R & D Organizations for research and product development.
- To promote analytical and experimental research.

RESOURCES AVAILABLE IN DEPARTMENT FOR R&D

- Highly experienced faculty members
- Computer lab with required important software
- 3 Centre of Excellences in Department
- MoU with many industries
- Major equipments are available in department for R&D
- Subscription of Major Journals and ebooks
- Licensed copy of Turnitin software



FACULTY DETAILS OF DEPARTMENT

SR. NO.	NAME OF FACULTY	RESEARCH DOMAIN	QUALIFICATION DETAILS
01	Prof. S. B. Hivarekar	Environmental Engineering	M.Tech. Ph.D. (Appearing)
02	Prof. S. S. Mohite	Civil Structure	M.Tech. Ph.D. (Appearing)
03	Dr. P. G. Chandak	Construction Management, Transportation Engineering, GIS	Ph.D.
04	Dr. P. B. Bhagawati	Environmental Engineering	Ph.D.
05	Dr. M. H. Mota	Environmental Engineering	M. Tech. Ph. D.
06	Mr. R. A. Patil	Civil Structure	M.E.
07	Mr. R. V. Jadhav	Construction Management	M.Tech. Ph.D. (Appearing)
08	Mrs. V. A. Lande	Civil Structure	M.Tech. Ph.D. (Appearing)
09	Mr. A. G. Mujawar	Civil Structure	M.Tech.
10	Mr. P. A. Mali	Construction Management	M.Tech.
11	Mr. P. A. Pisal	Engineering Geology, RSGIS	M.Sc. NET, Ph.D. (Appearing)
12	Mr. A. D. Patil	Construction Management	M.Tech. Ph.D. (Appearing)
13	Mr. K. K. Shinde	Civil Structure	M.E.
14	Mr. B. V. Mane	Civil Structure	M.E.
15	Ms. P.S. Kadam	Civil Structure	M.Tech.
16	Mr. P. D. Patil	Construction Management	M.Tech.

Centre of Excellences

Centre of Excellence in Watershed Management

- ❖ **Vision:** To generate water resources knowledge which is benefit to society and become successful water related research centre.
- ❖ **Objectives of CEWM :**
 - To provide/organize short term trainings/ workshops for students and faculty members.
 - To provide soil, material and water quality testing facilities.
 - To conduct geological and geo-technical study of multipurpose irrigation projects
 - Prepare geological map, provide technical assistance related to geology as per request by other projects
 - To monitor ground water level & quality, study and research of ground water pollution and formulate rules and regulation for its prevention.
 - Awareness amongst the society for conservation of water resources.
 - To organize visit to Dam & reservoirs for students.
 - To provide assistance to private and State Government organizations in the field of water resources.
 - MoU with private and State Government organizations in the field of water resources.
 - To suggest suitable sites for water conservation structures.
 - To produce quality publications on the basis of CEWM work.

Planned Activity

Sr. No.	Planned Activity	Duration
1.	Expert talk on 'Need of Watershed Management ' to students by Experts from Water Resource Department.	Feb. 2023
2.	World Water Day was celebration	22 March, 2023
3.	Arrange visit for students to Major water harvesting structures in nearby districts.	March 2023
4.	MoU with Groundwater Survey & Development Agency Sangli	May 2023
5.	Workshop 'Applications of GIS in Watershed Management with Hands-on Training ' for students	June 2023
6.	Submission of research proposal for minor/major research grants to various funding agencies.	Within 06 Month
7.	Students minor projects on case studies related to Watershed Management.	In upcoming academic year
8.	Preparation of Boucher	30th January 2023
9.	Circulation of Boucher to all Government agencies	Up to 30th March 2023
10.	Purchasing Computerized Electrical Resistivity Meter for Consultancy	Upcoming Year

Centre of Excellence in Structural Analysis and Auditing

- ❖ **Vision:** To enhance the skill of structural analysis and auditing in the students, faculties this benefits to society.
- ❖ **Objectives of Structural Analysis and Auditing:**
 - To provide/organize short term trainings/ workshops for students and faculty members.
 - To carried out mini projects and projects of undergraduate and post graduate students.
 - To perform consultancy activity from private and government agenesis.
 - To create the awareness amongst the society for old structures heath monitoring.
 - To develop kills in students and faculties related to structural analysis and auditing of different civil Structures.
 - MOU with private and State Government organizations in the field of Structural auditing.
 - To produce quality publications on the basis of Structural Analysis and Auditing.

Current Status

Sr. No.	Activity	Status
1.	Consultancy Generated	In the Last three Years More than 3 Lakh
2.	Advanced Equipment purchase	Total four Advanced instrument Purchase 1. Digital Rebound Hammer 2. Ultra Pulse velocity 3. Core Cutter 4. Corrosion Meter
3.	Faculty workshop were conducted	1. Structural Audit and Retrofitting of Civil Structures (27 th to 31 st January 2018) 2. Refresher program of repair, rehabilitation, and retrofitting of RCC structures (20 th to 27 th January 2022)
4.	Program elective was introduced	Structural Audit (2CVPE315) in T. Y. B. Tech of 160 credit

Planned Activity

Sr. No.	Activity	Duration
1.	Student workshop on structural auditing under student chapter	nd 2 to th 4 May 2023
2.	Students are involved in auditing consulting work.	As per consulting work
3.	Auditing data will be published in journals and paper presentation event	Each group one
4.	MoU with the Pinaca Consultant	In the month of February

5.	MoU with consultant Er. Ravi Ranade Sir (Construction Diagnostic Centre Pvt. Ltd.)	In The month of May
6.	Those Students interested in Auditing can go through field training in Construction Diagnostic Centre Pvt. Ltd. And Pinaca consultant	After VI sem in Vacation
7.	Faculty and Student related to Auditing and survey must go through one online course	As available
8.	Circulation of Boucher to all Government agencies, Privet consultants, and Builders.	Up to 30 th March 2023
9.	A meeting will be scheduled with all government agencies and private consultants, and builders.	30 th April 2023



Centre of Excellence in Surveying (DGPS)

- **Objectives**

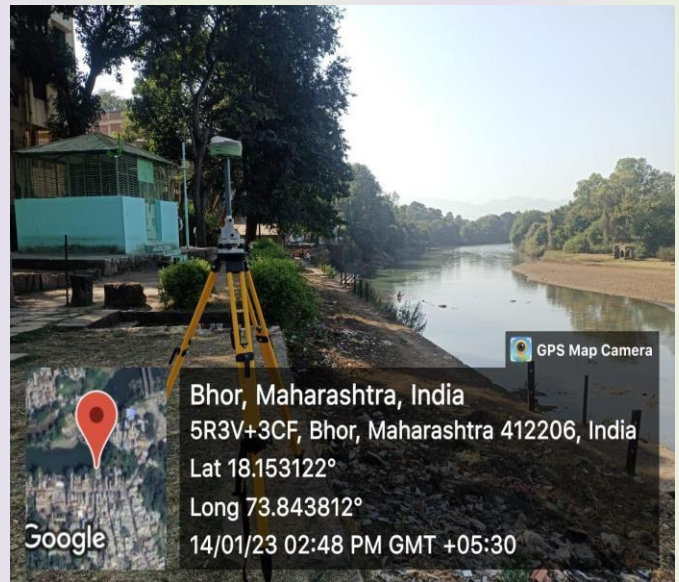
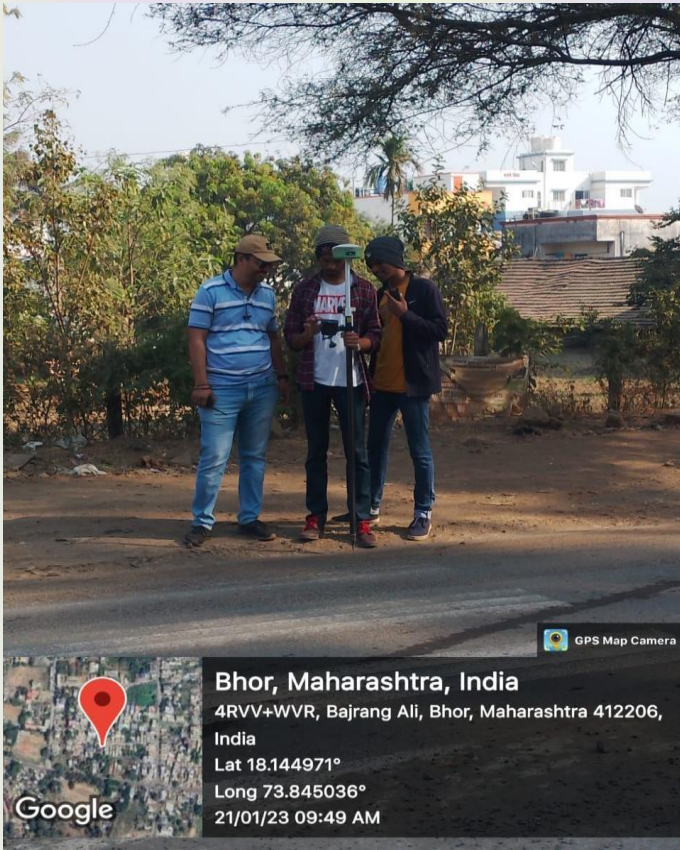
- To develop the 'state of the art' advanced Land Surveying Technology.
- To Carry out the mini and major projects for the undergraduate students.
- To enhance the skill of advanced surveying in students and faculty.
- To earn the consultancy

Current Status

Sr. No	Activity	Status
1.	Advance Instrument Available	Pentax V325 N Total Station Sokkia Topcon DX-101AC Total Station FOIF A90 DGPS
2.	Course Introduced	Advance Surveying (1CVPC202) Advance Surveying Lab (iCVPC252)

Planned Activity

Sr. No	Activity	Duration
1.	Add on Course on Advance Surveying Instruments	th 16 to rd 23 Jan 2023
2.	FDP on Advances in Surveying	In the Month of Feb 2023
3.	Involvement of students	As per the Consultancy Work
4.	Project on Land Surveying and mapping	As per Student Interest
5.	Consultancy related to Road Survey, Land mapping, Stakeout, Pipeline survey, Drainage Survey, and Contour survey	As per the work allotted
6.	Planned to Make MOU with the Govt. agencies (e.g. Survey of India)	In the Month of July 2023

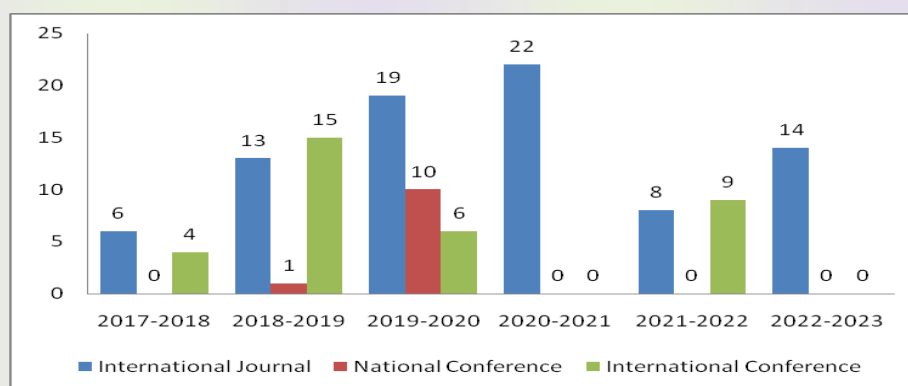


EVENTS ORGANIZED BY R&D CELL

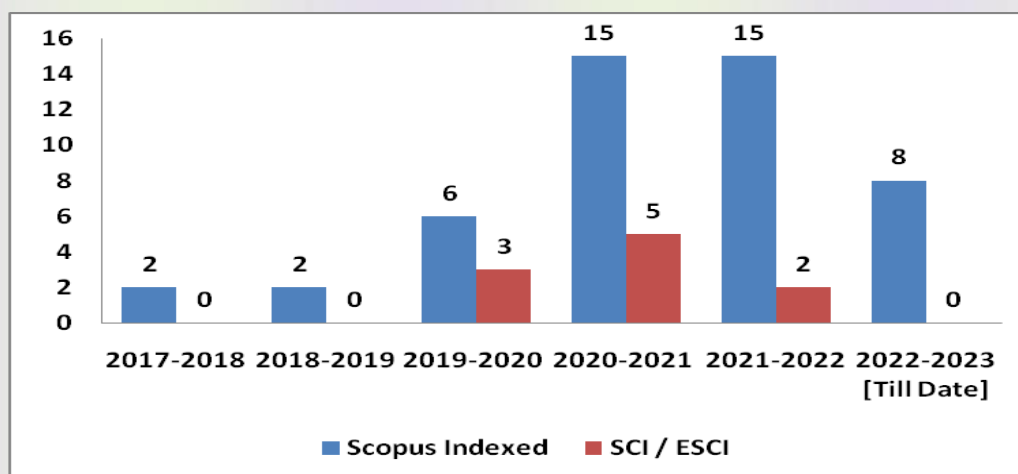
- 1) A session on Research Publication Ethics and Writing on Saturday, 28/01/2023 for faculty.**
- 2) An Intellectual Property Rights (IPR) Awareness session in association with National Intellectual Property Awareness Mission (NIPAM 2.0) on Tuesday, 10th Jan. 2023**
- 3) A National Level Project Competition cum Exhibition (Innovation-2023)” on the occasion of National Innovation Day organized by the Annasaheb Dange College of Engineering and Technology, Ashta, Sangli (Maharashtra) on Saturday, 11th March, 2023.**

DEPARTMENTAL PUBLICATIONS

Academic Year ↓	International Journal	National Conference	International Conference / Book Chapter	Total
2018-2019	13	01	15	29
2019-2020	19	10	06	35
2020-2021	22	00	00	22
2021-2022	08	00	09	17
2022-2023	13	00	01	14



Academic Year ↓	Scopus Indexed	SCI / ESCI	Others
2018-2019	04	00	13
2019-2020	06	03	13
2020-2021	15	05	07
2021-2022	15	02	01
2022-2023	09	00	05



IMPORTANT PUBLICATIONS OF DEPARTMENT

Sr. No.	Name Of Faculty	Title Of Paper	Publication / Presentation Details	Indexing / DOI / Other Details
1	P. A. Mali, R. V. Jadhav	JIT-(Just in Time) Implementation In Inventory Control of Construction Project	Journal of Electronic Information Technology Science And Management, Vol. 13, Issue 01, Jan 23	Scopus
2	K. K. Shinde, B. V. Mane	Research study on Soil Structure Interaction of Integrated Earth Retaining Wall: A Review	International Research Journal of Engineering and Technology, Volume: 09 Issue: 11, Nov 2022	Google Scholar
3	P. B. Bhagawati	Electrocoagulation Technology for Wastewater Treatment: Mechanism and Applications	Advanced Oxidation Processes in Dye-Containing Wastewater, pp 305–318 2022	Springer
4	P. B. Bhagawati	Electrosorption of Hexavalent Chromium Ions by MnO ₂ /Carbon Fiber Composite Electrode: Analysis and Optimization of the Process by Box-Behnken Design	Iraqi Journal of Chemical and Petroleum Engineering, Vol. 24 No.1 (March2023)	Google Scholar
5	S. S. Mohite V. A. Lande	Design of Castellated Column in Finite Element Analysis	International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.538 Volume 11 Issue II Feb 2023	Google Scholar
6	S. S. Mohite V. A. Lande	Analysis of Castellated Column and Its Buckling Behaviour	International Journal Of Engineering Research And Development e- ISSN: 2278-067X, p-ISSN: 2278-800X, Volume 19, Issue 2 (Mar.-Apr. 2023), PP. 37-53	Google Scholar
7	A. P. Patil	Improving bearing capacity of soil by incorporating waste tyre	AIP Conference Proceedings 2716, 040013 (2023), Volume 2716, Issue 1	Scopus
8	A. G. Mujawar, R. A. Chougale	Vibrational analysis of composite laminated shell: A review	AIP Conference Proceedings 2716, 040013 (2023), Volume 2716, Issue 1	Scopus
9	S. S. Mohite, B. V. Mane	Finite element analysis of bi-axially loaded high performance slender columns and preparing interaction curves	AIP Conference Proceedings 2716, 040013 (2023), Volume 2716, Issue 1	Scopus
10	B. V. Mane	Analysis of slender reinforced high performance concrete columns using ANSYS software	AIP Conference Proceedings 2716, 040013 (2023), Volume 2716, Issue 1	Scopus
11	M. B. Nadaf,	Model studies on soft rock using	AIP Conference	Scopus

	A. D. Patil, R. A. Chougale	socketed pile	<i>Proceedings 2716, 040013</i> (2023), Volume 2716, Issue 1	
12	K. K. Shinde	Shear performance of reinforce concrete beams strengthened with various configurations of FRP system: A review	<i>AIP Conference Proceedings 2716, 040013</i> (2023), Volume 2716, Issue 1	Scopus
13	M. H. Mota, P. B. Bhagawati, S. B. Hivarekar	Optimizing the overall performance of rapid sand filter by filter conditioning and altering media configuration	<i>AIP Conference Proceedings 2716, 040013</i> (2023), Volume 2716, Issue 1	Scopus
14	R. R. Kurlapkar, R. A. Chougale, A. G. Mujawar, K. K. Shinde, A. D. Patil	Comparative Study of Seismic Response for Steel Building Using Steel Bracing System and Fluid Viscous Damper System	<i>AIP Conference Proceedings 2716, 040013</i> (2023), Volume 2716, Issue 1	Scopus

BOOK PUBLICATION

Sr. No.	Name of Faculty	Name of Book	Publisher
01	Mr. S. S. Mohite Mr. R. V. Jadhav Mr. P. P. Bhagwati	Basic Civil Engineering	Willy Publication
02	Mr. S. B. Hivarekar Mrs. V. M. Patil Mr. R. A. Patil Mr. M. M. Bhanuse Mr. M. R. Katti	Engineering Mechanics	Willy Publication
03	Mr. A. D. Patil	Text book and laboratory manual of concrete technology	Aruna Publication
04	Dr. Amit Prakash Patil, Mr. R. V. Jadhav and Mr. Mahashkumar M. Bhanuse	Optimization of project network under constrained resource Environment	Lap Lambart Publication
05	Mr. P. A. Pisal, Mr. S. B. Hivarekar	Jalyukt Shivar Abhiyan in Tasgaon Taluka, Sangli District, MH, India	Lap Lambart Publication
06	Mr.Subodh S Patil Mr.Santosh.S Mohite	Sesmic Behavior of Different Structures	Lap Lambart Publication
07	Mr. C.R. Shah Mr. P.A.Mali	Soil Analysis and Stability of Slope	Lap Lambart Publication
08	Ms. Patil Vidya M.	Finite Elemnent Analysis Of Box Culvert	Lap Lambart Publication
09	Mr.Santosh.S Mohite Mr Bajirao V Mane	Building Analysis Using STADD. Pro	Lap Lambart Publication
10	Mr Bajirao V Mane Mr.Santosh.S Mohite	Marble Dust Concrete	Lap Lambart Publication
11	Mr. P. A. Pisal, Mr. R. A. Patil	Watershed Management Using Geospatial Techniques	Lap Lambart Publication
12	Mr. A. D. Patil	All About NPTEL	Lap Lambart Publication
13	Ms. Payal Kadam	RCC structures subjected to spatial blast loading	Lap Lambart Publication
14	Kiran Shinde	Silica Fume Concrete	Lap Lambart Publication

CITATION DETAILS OF PUBLICATIONS

Google Scholar Citations Details

Sr. No.	Faculty Name	Total No. Of Citations	h index	i10 index
01	Dr. A. P. Patil	174	04	03
02	Dr. M. B. Nadaf	140	06	04
03	Dr. Prashant Bhagwati	86	05	04
04	Dr. P. G. Chandak	58	04	02
05	Ms V. M. Patil	45	04	03
06	Mr. P. A. Pisal	29	03	01
07	Mr. R. A. Patil	27	03	01
08	Mr. S. S. Mohite	23	03	01
09	Mr. Manoj Mota	17	03	01
10	Mr. Pritam Mali	10	02	00
11	Mr. R. V. Jadhav	05	01	00

Scopus Citations Details

Sr. No.	Faculty Name	Total No. Of Citations	h index
01	Dr. A. P. Patil	131	04
02	Dr. P. B. Bhagawati	60	04
03	Dr. M. B. Nadaf	44	04
04	Dr. P. G. Chandak	19	02



Dr. Prashant Basavaraj Bhagawati

(Bhagawati, Prashant Basavaraj)

Annasaheb Dange college of Engineering & Technology, Ashta

Web of Science ResearcherID: F-9519-2015

Published names **Bhagawati, Prashant Basavaraj** Bhagawati, P. B.

Published Organizations **Basaveshwar Engn Coll, Annasaheb Dange Coll Engn & Technol**

Subject Categories **Environmental Sciences & Ecology; Engineering; Chemistry; Electrochemistry; Energy & Fuels**

Other Identifiers <https://orcid.org/0000-0003-4156-7874>

Metrics

Open dashboard

Profile summary

- 8 Total documents
- 5 Web of Science Core Collection publications
- 0 Preprints
- 2 Verified peer reviews
- 0 Verified editor records

Web of Science Core Collection metrics

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45 Sum of Times Cited	41 Citing Articles

View citation report

Documents

Peer Review

Bhagawati, Prashant Basavaraj

Hon. Shri. Annasaheb Dange College Of Engineering & Technology, Sangli, India 57192275271 <https://orcid.org/0000-0003-4156-7874>

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19

Citations by 13 documents

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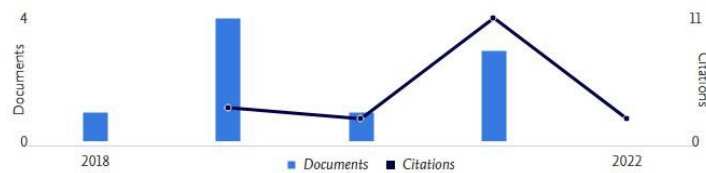
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RESEARCH GRANTS RECEIVED

A) From Outside Agencies / Organizations :

Name of Faculty	Project title	Funding agency	Amount (in Rs)	Status
Mr. P. B. Bhagawati	Treatment of Municipal waste water by electrochemical techniques	Science And Engineering Research Board (SERB)	18,30,000	Ongoing
Dr. Amit P. Patil	Evaluation of Hybrid Artificial intelligence models for estimating dew point temperature	Shivaji University Kolhapur	20,000	Ongoing
Mr. P. M. Mali and Dr. Amit P. Patil	Artificial intelligence models for estimating evapotranspiration	Shivaji University Kolhapur	45,000	Ongoing
Mr. S. B. Hiveraker and Mr. P. B. Bhagawati	Electrolytic Defluoridation of groundwater	Shivaji University Kolhapur	1,12,500	Completed
Dr. A. P. Patil	Refresher course on Repair, Rehabilitation and Retrofitting of RC Structures	ISTE - AICTE	93,000	Completed

Research Funding



B) From Own Institute :

Name of the teacher getting seed money	Title	The amount of seed money	Duration of the grant
Dr. A. P. Patil	Artificial Intelligence model for estimating hydro metrological parameters	7,000/-	1 Year
M. H. Mota and S. B. Hivarekar	Manufacturing the eco friendly composite tiles using waste plastic, foundry waste sand and tyre wastes.	10,000/-	1 Year
P. A. Mali	Conceptualization and development of interlocking blocks for wall construction.	10,000/-	1 Year
B. V. Mane	Determination of shear centre of channel section.	10,000/-	1 Year
A. D. Patil	Organic Fertilizers using human faces	10,000/-	1 Year
P. S. Kadam and V. M. Patil	Mitigation of flood hazards in Sangli city	10,000/-	1 Year

CONSULTANCY DETAILS

Consultancy for Academic Year: 2022-23 (1 April 2022 to 31 March 2023)

Sr. No.	Name of Faculty	Type of Testing	Name of Contractor/Client	Received Amount
1.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
2.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
3.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
4.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
5.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
6.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
7.	SBH/BVM/ABS	Compression Test	ASCON Infra, Sangli	150/-
8.	SVD	Structural Auditing	Z. P. School, Kauthuli	5000/-
9.	SVD	Structural Auditing	Z. P. School, Gomewadi	3000/-
10.	BVM/ABS	Mix Design	Deepak Patil	9000/-
11.	BVM/ABS	Compression Test	Anvi Construction, Mr. Arjun Patil.	92,500/-
12.	APP/PAM	Structural Auditing	Mansing Bank Karad	3000/-
13.	SBH/BVM	Compression Test	ASCON Infra, Sangli	300/-
14.	SBH/BVM	Compression Test	ASCON Infra, Sangli	300/-
15.	SBH/BVM	Compression Test	ASCON Infra, Sangli	300/-
16.	MHM	Swaccha Bharat Abhiyan	Sangli Miraj Kupwad Corporation	21000/-
17.	SVD	Structural Auditing	Z.P.School Ya. Pa. Wadi, Aatpadi	3000/-
18.	BVM/ABS	Compression Test	Sub Divisional Engg. BSNL Civil Div.-I Kolhapur	300/-
19.	BVM/ABS	Compression Test	Er. Nawaj Desai Builders & Developers ,Islampur	300/-
20.	BVM/ ADP/ABS	Total Station Survey	Dhiraj Sunil Patil ,Peth,	2500/-
21.	BVM/ABS	Compression Test	ASCON Infra, Sangli	300/-
22.	AGM	Structural Auditing	Ugale Construction Works Sangli.	4000/-

23.	RVJ /BVM/VPW	Structural Auditing	Gangangiri Maharaj Math, Karanjwade	4000/-
24.	PDP/KKS/BVM	Total Station Survey	B.S.Desai Hospital,Undale	13000/-
25.	BVM/ABS	Compression Test	Mr. Pratap Patil Associates,	13400/-
26.	BVM/ABS	Steel Testing	Inamdar Aimat (Jyotirling Majur Sahakari Sosity)	2500
27.	RVJ/ADP/VPW	Structural Auditing	Mr. Shivaji Ghate,	4000/-
28.	BVM/ABS	Compression Test	Martand Construction	600/-
29.	PDP/KKS	Cube Testing	Juber Inamdar	13,000/-
30.	PDP/KKS	Road Survey- DGPS	Arjun More (Bhor Nagarparishad,Bhor)	7000/-
31.	PDP/KKS/VPW	River Ghat Survey	Ajinkya Sathe (Bhor Nagarparishad,Bhor)	5000/-
32.	BVM/ABS	Crush Sand Test	PWD Sangli (Aimat Inamdar) (Divisional Office,Sangli)	2000/-
33.	BVM/ABS/MSK	Structural Auditing	Rajesh Prabhakar Patil	4000/-
34.	BVM/ABS	Bricks testing	Sudhir Phatak ,Masuchiwadi	600/-
35.	PDP/ABS	Cube Testing	Juber Test Report, Kasarwadi	3000/-
36.	PDP	Cube Testing	Juber Inamdar Kolhapur.	5000/-
37.	BVM/ADP	Structural Audit	Sachin Veer Aitavade Bodruk,	4000/-
38.	ADP/BVM/RTB	Mix Design	Kirtiraj Vanjale, Nagaon	5000/-
39.	ADP/BVM/RTB	Mix Design	Kirtiraj Vanjale, Dhavali	5000/
40.	ADP/BVM/RTB	Mix Design	Kirtiraj Vanjale, Gatadwadi	5000/
41.	PAM/BVM/ABS	Soil Testing	Kirtiraj Vanjale, Nagaon	5000/
42.	PAM/BVM/ABS	Soil Testing	Kirtiraj Vanjale, Dhavali	5000/
43.	PAM/BVM/ABS	Soil Testing	Kirtiraj Vanjale, Gatadwadi	5000/

44.	PDP/ADP	DGPS Survey	Kachare Islampur	8000/-
45.	BVM/ADP/KKS	DGPS Survey	Sajani Patil	4000/-
			TOTAL AMOUNT	2,63,850/-



INTELLECTUAL PROPERTY

Sr. No	Registered /published	Title	Authors	Application number
1	Published	Study of Behavior of Cold-Formed Steel Sections Under Axial Compressive Loading	K. K. Shinde S. S. Mohite M. M. Bhanuse	202021006087
2	Published	Seismic Analysis Of Irregular/Eccentric Prototype Steel Structure With Help Of Experimental And Software Methods	M. M. Bhanuse S.S. Mohite K. K. Shinde	202021006089
3	Published	A Novel Organic Bio-fertilizer using human faces	A. D Patil B. V. Mane S. S Mohite	202121029668
4	Published	AI Based Smart Meter For Municipal Waste Water Treatment Electrochemical Technique & Quality Monitoring Using IOT	Dr. P. B. Bhagawati.	202241010481
5	Published	A Novel Design of High Performance Concrete Using Fly Ash As Admixture And Admix 345 As Superplasticizer	B. V. Mane, S. S. Mohite, A. D. Patil	202221053634



FACULTY MEMBERS & TECHNICAL SKILL

Faculty Members of Civil Engineering department having skill to operate following software which are essential for Research & Development

- AutoCAD
- Staad Pro
- Terramodel,
- Matlab,
- Lingo,
- HECRAS
- ILWIS,
- IITPave
- QGIS
- GW Chart
- ETAB,
- ABAQUS
- MSP,
- Primavera,
- TEKLA,
- 1000s mind
- MIDAS-gen,
- VISSIM,
- Revit Architecture



SPECIAL ACHIEVEMENT OF FACULTY MEMBERS

Faculty Details	Achievement Details
 Dr. M. H. Mota	<ul style="list-style-type: none"> ➤ Received Ph.D. Degree from Shivaji University, Kolhapur. ➤ Indian Green Building Council [IGBC] Accredited Professional.
 Prof. S. S. Mohite	<ul style="list-style-type: none"> ➤ Best Paper Award in AIP Conference ➤ Awarded as Best Teacher from Manushyabal Vikas Sanstha, Delhi.
 Dr. P. G. Chandak	<p>Working as Reviewer for</p> <ul style="list-style-type: none"> ➤ “Journal of Performance of Constructed Facilities”, ASCE ➤ “Environment, Development and Sustainability”, Springer ➤ “Soft Computing in Civil Engineering”, Pouyan Press Publications.
 Dr. P. B. Bhagawati	<p>Working as Reviewer for</p> <p>Journal of Taiwan Institute of Chemical Engineers, ELSEVIER</p>
 Prof. A. D. Patil	<p>Awarded as “Active SPOC” by NPTEL, IIT Madras for 5th Time</p>

FINAL YEAR STUDENTS PROJECT DETAILS [2022-2023]

Sr. No.	Name of Guide	Project Title	Name of student	Outcomes	
				Patent/ Product Development	Social Aspect
1	Mr. S S. Mohite	Manufacturing of Fencing Post by using Waste materials.	Patil Samruddhi Yogesh	Yes	Yes
			Pawar Harshada Vilas		
			Korke Vijay Sudhakar		
			Shinde Vinod Tanaji		
2	Mr. S. B. Hivarekar	Making Cleaning system for water tank with minimum wastage of water	Aditya Ramchandra Sonure	Yes	Yes
			Vishal Vikas Patil		
			Sajid Bavachkar Dastgir		
			Jadhav Vishvajeet Upendra		
3	Mr. A.G. Mujawar	Seismic analysis of RCC building with different arrangement of steel bracing system in different zones using software	Patil Shreyasha Sudam	-	-
			Patil Vedika Vitthal		
			Patil Ajinkya Dattatray		
			Suraj Nilkanth Thorat		
4	Dr. P. G. Chandak	Use of waste Tea powder for repairs and rehabilitation of potholes	Harshvardhan Suryakant Patil	Yes	Yes
			Gaurav Suryakant Kudale		
			Kunal Vilas Kalebag		
			Avishkar Sampat Shinde		
5	Mr.R.A. Patil	Manufacturing of brick using laterite soil.	Tanishk Sunil Nalawade	Yes	-
			Anuja Pandharinath Chinde		
			Vitthal Sanjay Banne		
			ManojBhaskar Deshmukh		
6	Mr. M. H. Mota	Effective utilization of E waste & saw dust to produce the wood based product.	Samruddhi Siddhnath Basagare	Yes	Yes
			Shetti Samruddhi Rajendra		
			Sargar Amit Bhupal		
			Patil Aditya Anilkumar		
7	Mr. R. V. Jadhav	Building Construction defects analysis	Bidve Vitthal Tanaji	-	-
			Rafi mohd		
			Mandale Akshay Bhaskar		
			Aditya Vijay Katare		
8	Mr. P.B. Bhagwati	Treatment of municipal wastewater by constructed wetland	Musaddiq Sikandar Momin	Yes	Yes
			Atharvraj Sanjay Patil		
			Sanket Laxman Mali		
			Maheshwari M. Mane-Patil		
9	Mr. P A. Mali	Minimizing the cost of material & requirement through optimization technique in construction project.	Harshada Kiran Bhujagade	-	-
			Nishant NivasPatil		
			Sanket SubhashThorat		
			Prasad Rajendra Lohar		
10	Mr. P. A. Pisal	Utilization of waterlogged soil and other waste material for brick formation.	Snehal Sunil Yadav	Yes	Yes
			Chaitali Arjun Lad.		
			Abhishek Atul Salagar		

			Atharv Sunil Shete		
11	Mr. A. D. Patil	Comprehensive Design of Fertilizer Plant By Using Degradable Human Feces	Patil Rushikesh Rangrao	Yes	Yes
			Gaikwad Kunal Maruti		
			Dange Shubham Shivaji		
			Desai Pravin Yuvraj		
12	Mr. B.V. Mane	Analysis of slender reinforced high performance concrete columns using software	ShradhaTanaji Bidwe	-	-
			Amol Basavaraj Khairwad		
			Prajwal Dhananjay Hajare		
			Abhijit Dipak Karande		
13	Mr. P. S. Kadam	Mitigation of flood hazard using concept of Sponge city	Desai Prachi Shamrao	-	-
			Ankita Manik Salgar		
			Shruti Nandkumar Shingare		
			Sourabh Shrikant Waghmode		
14	Mr. A. G. Mujawar	Development of functionally graded polymer reinforced composite material for elevated temperature applicable in Civil and Aeronautical fields	Sankalp Kailas Mohite	Yes	-
			Perna Pradip Kale		
			Rachana Dilip Bhosale		
			Shubham Dadaso Lokhande		
15	Mr. P.D. Patil	Stabilization of black cotton soil sub grade using waste geosynthetic materials for the improvement of pavement.	Rushikesh Bhaskar Mahind	Yes	-
			Swapnil Shrinivas Mane		
			Khedekar Aryaman Harshal		
			Patil Shubham Krishant		
16	Mr. R.V. Jadhav	Artificial Intelligence models for reservoir operation.	Monika Ashok Shinde	-	-
			Rutuja Sanjay Sapkar		
			Nilesh Laxman Urkude		
			Achintya Anant Sapkal		
17	Mr. P.D. Patil	Reclamation of saline agricultural land	PatilNiranjan Nitin	-	-
			Katkar Abhaysinh Subhash		
			Bandivadekar Gurunath Sanjay		
			Patil Kaustubh Mohan		
18	Mrs. V.A. Lande	Behavior of rolled steel 'I' Section with FRP	Satre Shejal Vishnu	Yes	-
			Mahind Aishwarya Lalaso		
			Khandare Harish Sanjiv		
			Mohd Riyaz Khan		
19	Mr. M. H. Mota	Utilization of plastic waste in the manufacturing of flooring tiles & Paving blocks.	Mane Prajakta Dashrath	Yes	Yes
			Telang Tejaswini Vitthalrao		
			Waghmare Babasaheb Govind		
			Chinmay Dilip Pawar		
20	Mr. K.K. Shinde	Condition assessment of ESR Using NDT Methods	Shridhar Shivaji Kudache	-	-
			Bagwan Aawej Faruk		
			Patil Shivraj Santosh		
			Patil Prithviraj Vasantrao		

Final Year Project Achievements

First Prize Winners in “BRAIN it ON’ at PVPIT, Budhgaon



Winners in Innovation 2k23 at ADCET Ashta



Runner Up in Innovation 2k23 at ADCET Ashta





CERTIFICATE OF ACKNOWLEDGEMENT

THIS IS TO CERTIFY THAT

Samruddhi Siddhnath Basagare

was finalist in Ideathon 3.0 organized by AnkurGECA Incubation Centre Foundation (AICF) and Entrepreneurship Development Cell, Aurangabad.

Dr. A. S. Bhalchandra
Principal

Dr. A. R. Karwankar
Director AICF

Dr. Shilpa Kabra
Faculty Co-ordinator

Prof. Sushma Agrawal
Faculty Co-ordinator



BENDING, FLEXIBLE CONCRETE

Research to improve the quality of concrete is one of the most popular pursuits in materials science, but this shouldn't come as a surprise.

These days, almost all construction is based on concrete. We already mentioned that one of the problems of concrete is its fragility if it chips and cracks. Additionally, while concrete is extremely strong, it is limited in the load it can bear. Back in 2014, Singaporeans were able to not only improve the strength and reduce the weight of concrete by eliminating reinforcement in concrete structures, but they also added flexibility, which is not a characteristic property of traditional concrete.

Due to a unique additive, the new concrete ConFlexPave has gained flexibility and strength that is up to 3 times higher than that of traditional concrete. The thinnest polymer microfibers are mixed into the solution, distributing loads across an entire slab of concrete. This helps it to become as strong as metal and twice as strong as regular concrete when it is subjected to bending.

However, there is no limit to perfection, and other scientists continue to pursue flexible concrete. For example, specialists from Swinburne University have created concrete without using cement, but with the same outstanding characteristics in terms of flexibility and loads. This new kind of concrete is also eco-friendly as it incorporates fly ash and geopolymer composites — typical waste emissions from coal power plants. It also solidifies at room temperature which means there is no need for unsustainably high production costs. But most importantly, the new concrete is 400 times more flexible than traditional concrete, while maintaining the same level of strength. Geopolymers not only add to the flexural coefficient, but also improve the resistance to possible micro-fractures. The polymer fibers hold the structure under load even with cracks, so the new material can be used in earthquake-prone areas as the risk of collapse of buildings made of such concrete is minimized.



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- ❖ Prof. R. A. Kanai, Executive Director, SDSS, Islampur.
- ❖ Dr. Vikram S. Patil, Director, ADCET, Ashta
- ❖ Prof. S. B. Hivarekar, Dean Administration, ADCET, Ashta
- ❖ Dr. Gopinath S., Dean Academics, ADCET, Ashta

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